

Phosphoenolpyruvate synthase (ppsA) Recombinant Protein | ppsA recombinant protein

Recombinant Escherichia coli Phosphoenolpyruvate synthase (ppsA)

CATALOG # AAA115212	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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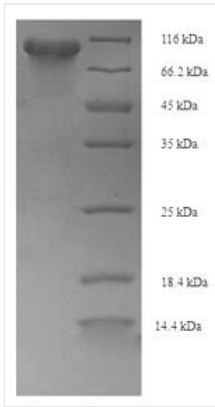
PRODUCT SYNONYMS

Phosphoenolpyruvate synthase (ppsA); Recombinant Escherichia coli Phosphoenolpyruvate synthase (ppsA); Pyruvate; water dikinase; ppsA recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	2-792aa; Full Length of Mature Protein
Sequence	SNNGSSPLVL WYNQLGMNDV DRVGGKNASL GEMITNLSGM GVSVPNGFAT TADAFNQFLD QSGVNQRIYE LLDKTDIDDV TQLAKAGAQI RQWIIDTPFQ PELENAIREA YAQLSADDEN ASFAVRSSAT AEDMPDASFA GQQETFLNVQ GFDVAVLVAVK HVFASLFNDR AISYRVHQGY DHRGVALSAG VQRMVRSOLA SSGVMFSIDT ESGFDQVVFI TSAWGLGEMV VQGAVNPDEF YVHKPTLAAN RPAIVRRRTMG SKKIRMVYAP TQEHGKQVKI EDVPQEQRDI FSLTNEEVQE LAKQAVQIEK HYGRPMIDIEW AKDGHTGKLF IVQARPETVR SRGQVMERYT LHSQGKIAE GRAIGHRIGA GPVKVIHDS EMNRIEPGDV LVTDMTPDPW EPIMKKASAI VTNRGGRTCH AAIIARELGI PAVVGCGDAT ERMKDGENVV VSCEAGDTGY VYAELEFSV KSSSVETMPD LPLKVMNVG NPDRAFDFAF LPNEGVLAR LEFIINRMIG VHPRALLEFD DQEPQLQNEI REMMKGFDSP REFYVGRLTE GIATLGAIFY PKRVIVRLSD FKSNEYANLV GGERYEPDEE NPMLGFRGAG RYVSDSFRDC FALECEAVKR VRNDMGLTNV EIMIPFVRTV DQAKAVVEEL ARQGLKRGEN GLKIIMMCEI PSNALLAEQF LEYFDGFSIG SNDMTQLALG LDRDSGVVSE LFDERNDVAVK ALLSMAIRAA KKQGLKYVGC GQGPSDHEDF AAWLMEEGID SLSLNPDTV VQWLSLAELK K
Sequence Length	792
Production Note	Special Offer: The E Coli host-expressed protein is manufactured from a stock plasmid containing the protein gene. E Coli host-expressed protein is stocked in different unit sizes ranging from as small as 10 ug to as large as 1 mg. Bulk inventory is also available. The E Coli host-expressed protein has been ordered over and over again by researchers and has stood the test of time as both a robust protein and important target for the research community. It is part of our new program to make our most popular protein targets and corresponding hosts available in expanded unit sizes and with a quick processing time. Select E Coli host-expressed protein for the fastest delivery among all hosts. Please contact our or email to for more details.
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for ppsA recombinant protein	Catalyzes the phosphorylation of pyruvate to phosphoenolpyruvate.
References	The cloning and sequence of the E. coli pps gene.Holzschu D.L., McElver J.A., Liao C.C., Berry A. Cloning and nucleotide sequence of the Escherichia coli K-12 ppsA gene, encoding PEP synthase.Niersbach M., Kreuzaler F., Geerse R.H., Postma P.W., Hirsch H.J.Mol. Gen. Genet. 231:332-336(1992) A 570-kb DNA sequence of the Escherichia coli K-12 genome corresponding to the 28.0-40.1 min region on the linkage map.Aiba H., Baba T., Fujita K., Hayashi K., Inada T., Isono K., Itoh T., Kasai H., Kashimoto K., Kimura S., Kitakawa M., Kitagawa M., Makino K., Miki T., Mizobuchi K., Mori H., Mori T., Motomura K., Nakade S., Nakamura Y., Nashimoto H., Nishio Y., Oshima T., Saito N., Sampei G., Seki Y., Sivasundaram S., Tagami H., Takeda J., Takemoto K., Takeuchi Y., Wada C., Yamamoto Y., Horiuchi T.DNA Res. 3:363-377(1996) The complete genome sequence of Escherichia coli K-12.Blattner F.R., Plunkett G. III, Bloch C.A., Perna N.T., Burland V., Riley M., Collado-Vides J., Glasner J.D., Rode C.K., Mayhew G.F., Gregor J., Davis N.W., Kirkpatrick H.A., Goeden M.A., Rose D.J., Mau B., Shao Y.Science 277:1453-1462(1997) Highly accurate genome sequences of Escherichia coli K-12 strains MG1655 and W3110.Hayashi K., Morooka N., Yamamoto Y., Fujita K., Isono K., Choi S., Ohtsubo E., Baba T., Wanner B.L., Mori H., Horiuchi T.Mol. Syst. Biol. 2:E1-E5(2006) The mechanism of the phosphoenolpyruvate synthase reaction.Cooper R.A., Kornberg H.L.Biochim. Biophys. Acta 141:211-213(1967) Phosphoenolpyruvate synthetase of Escherichia coli. Purification, some properties, and the role of divalent metal ions.Berman K.M., Cohn M.J. Biol. Chem. 245:5309-5318(1970) Phosphoenolpyruvate synthetase of Escherichia coli molecular weight, subunit composition, and identification of phosphohistidine in phosphoenzyme intermediate.Narindrasorasak S., Bridger W.A.J. Biol. Chem. 252:3121-3127(1977) Escherichia coli proteome analysis using the gene-protein database.VanBogelen R.A., Abshire K.Z., Moldover B., Olson E.R., Neidhardt F.C.Electrophoresis 18:1243-1251(1997) Cloning and characterization of Escherichia coli DUF299 a bifunctional ADP-dependent kinase--Pi-dependent pyrophosphorylase from bacteria.Burnell J.N.BMC Biochem. 11:1-1(2010)

NCBI AND UNIPROT INFORMATION

NCBI GI #	16129658
NCBI GeneID	946209
NCBI Accession #	NP_416217.1
NCBI GenBank Nucleotide #	NC_000913.3
UniProt Accession #	P23538
Molecular Weight	103.3 kDa
NCBI Official Full Name	phosphoenolpyruvate synthase
NCBI Official Symbol	ppsA
NCBI Official Synonym Symbols	ECK1700; JW1692; pps

NCBI Protein Information	phosphoenolpyruvate synthase
UniProt Protein Name	Phosphoenolpyruvate synthase
UniProt Gene Name	ppsA
UniProt Synonym Gene Names	pps; PEP synthase
UniProt Entry Name	PPSA_ECOLI

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/ppsa-recombinant-protein-e-coli-or-yeast-or-baculovirus-or-mammalian-cell/115212>